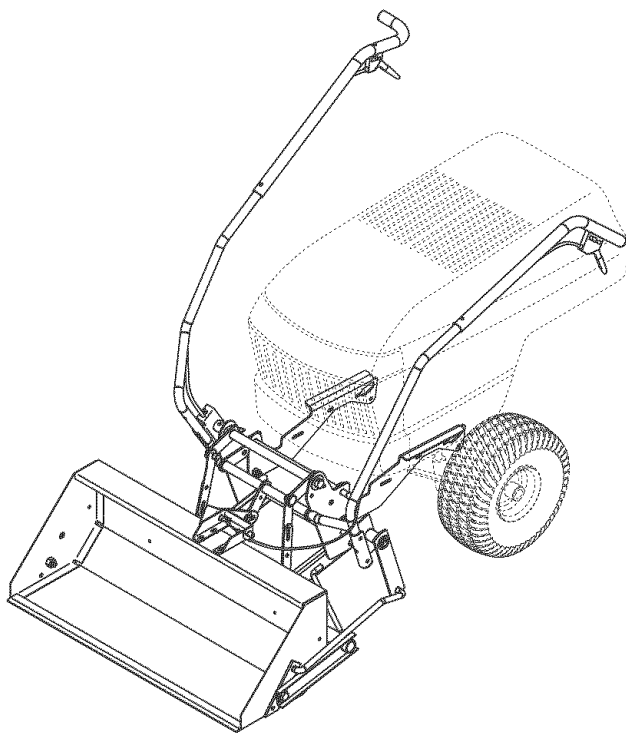


# Operator's Manual

## CRAFTSMAN®

Model No. 486.248471

### FRONT SCOOP TRACTOR ATTACHMENT



#### CAUTION:

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

**IMPORTANT:** For Missing Parts or Assembly Questions Call 1-866-576-8388

- Safety
- Assembly
- Operation
- Maintenance
- Parts

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.  
[www.sears.com/craftsman](http://www.sears.com/craftsman)

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## WARRANTY

### ONE YEAR FULL WARRANTY

When operated and maintained according to the instructions supplied with it, if this Front Scoop Tractor Attachment fails due to a defect in material or workmanship within one year from the date of purchase, call 1-800-4-MY-HOME® to arrange for free repair (or replacement if repair proves impossible).

If this product is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Sears, Roebuck and Co., D817WA, Hoffman Estates, IL 60179**

The model number and serial number will be found on a decal attached to the bucket.

You should record both the serial number and the date of purchase and keep in a safe place for future reference.

MODEL NUMBER: 486.248471

SERIAL NUMBER: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_



## SAFETY RULES



Any power equipment can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when using power equipment.

- Read this operator's manual before attempting to assemble or operate the scoop attachment.
- Read the vehicle owner's manual and know how to operate your vehicle before using the scoop attachment.
- Never carry passengers in the scoop bucket. It has not been designed to carry passengers.
- Never allow children to operate the vehicle or the scoop attachment.
- Do not allow adults to operate the vehicle or scoop attachment without proper instructions.
- Always begin with the transmission in first (low) and gradually increase speed as conditions permit.
- Drive the tractor at reduced speed over rough terrain and hillsides or near creeks and ditches to prevent tipping over and loss of control. Do not drive too close to a creek or ditch.
- Never ram the scoop into material at high speed.
- Vehicle braking and stability may be affected with the attachment of this scoop. Do not fill the scoop to maximum weight capacity without checking the capability of the vehicle to safely drive and stop with the scoop attached.
- Before operating vehicle on any grade (hill) refer to the safety rules in the vehicle owner's manual concerning safe operation on slopes. Refer also to the slope guide on page 23 of this manual. **Stay off steep slopes!**
- Follow maintenance and lubrication instructions as outlined in this manual.

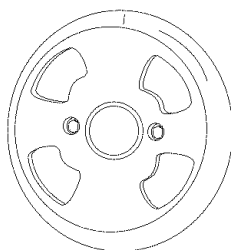


Look for this symbol to point out important safety precautions. It means — **Attention!! Become alert!! Your safety is involved.**

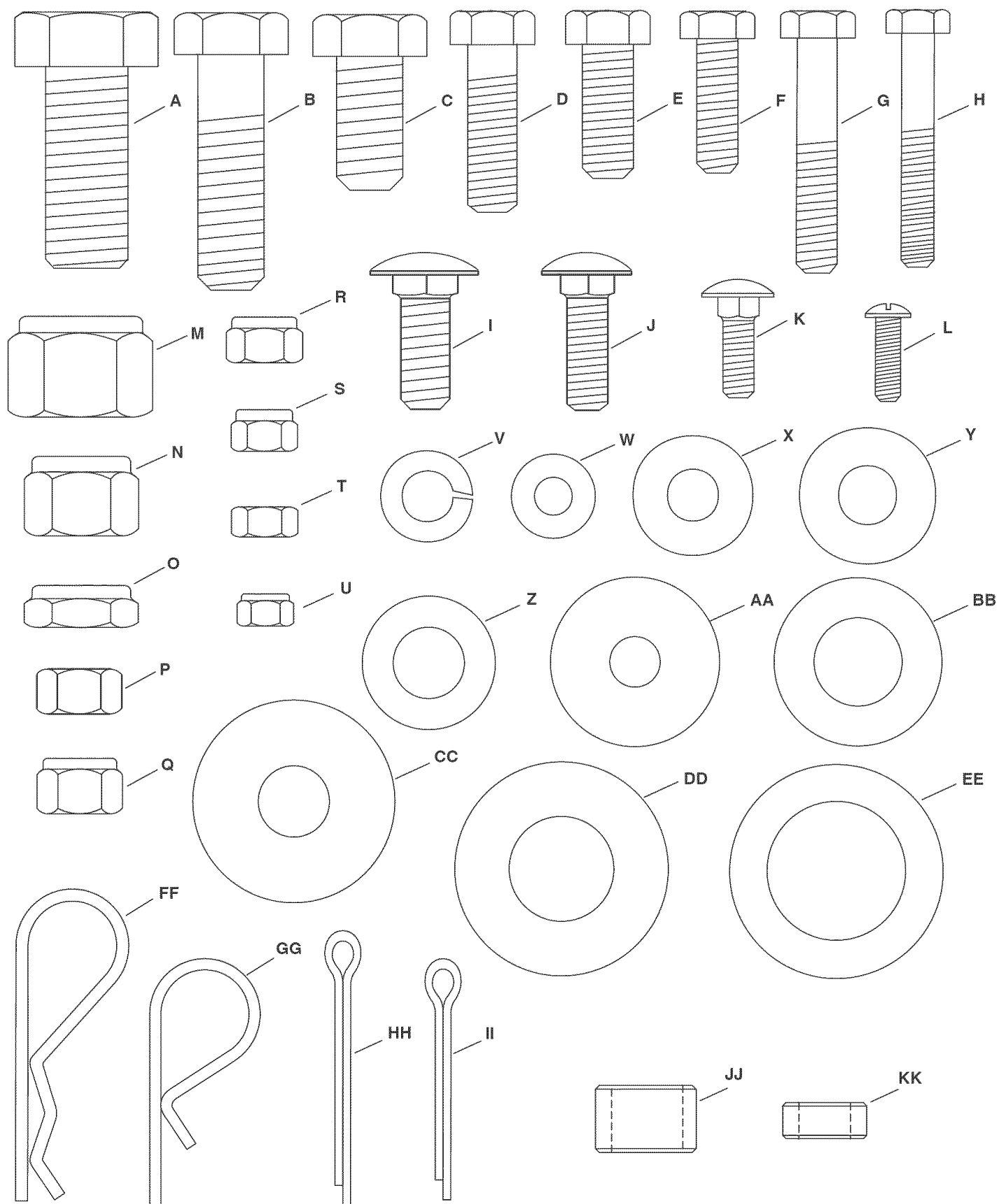
## ACCESSORIES AND ATTACHMENTS

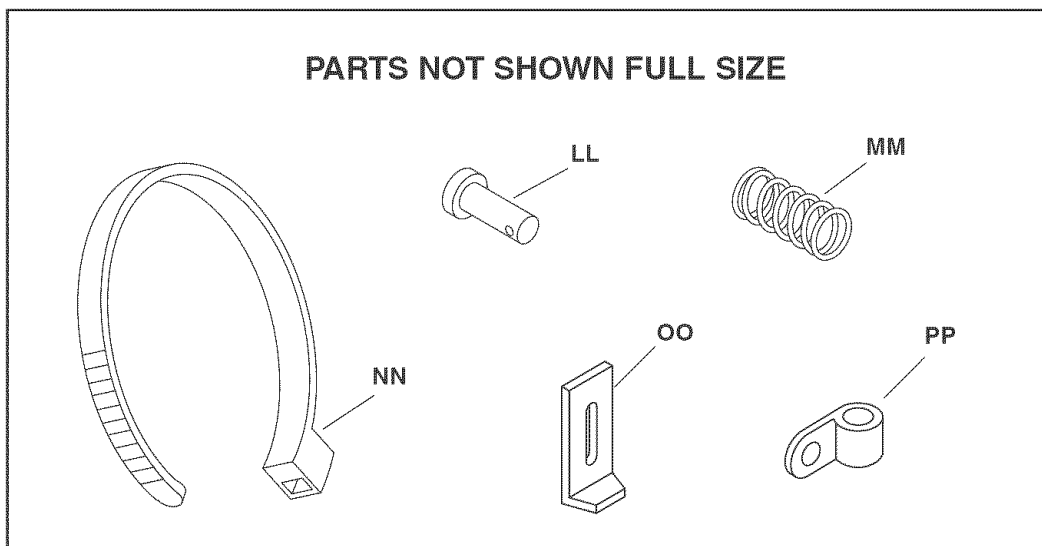
These accessories were available when the unit was purchased. They are also available at most Sears retail outlets and service centers. Most Sears stores can order repair parts for you when you provide the model numbers of your tractor and scoop.

### WHEEL WEIGHT



# FULL SIZE HARDWARE CHART





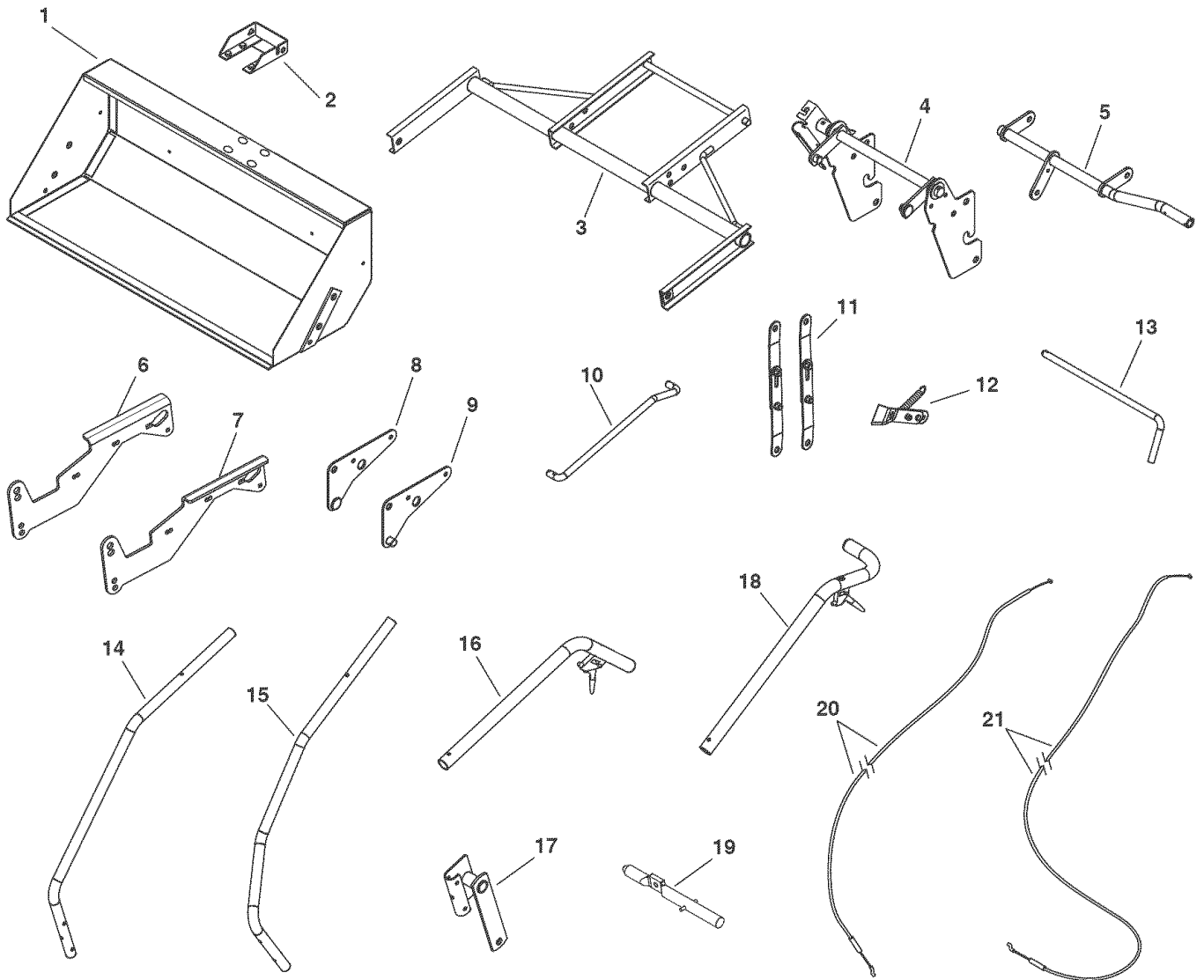
## PARTS BAG CONTENTS

Not all parts will be needed for fit-up to any one tractor.  
Discard unneeded parts after assembly is finished.

REF.	QTY.	DESCRIPTION	REF.	QTY.	DESCRIPTION
A	2	Hex Bolt, 5/8" x 1-1/2"	V	6	Lock Washer, 3/8"
B	2	Hex Bolt, 1/2" x 1-3/4"	W	3	Washer, 1/4"
C	3	Hex Bolt, 1/2" x 1"	X	8	Washer, 5/16"
D	2	Hex Bolt, 3/8" x 1-1/4"	Y	6	Washer, 3/8" (Small)
E	6	Hex Bolt, 3/8" x 1"	Z	4	Washer, 1/2" (Small)
F	5	Hex Bolt, 5/16" x 1"	AA	2	Washer, 3/8" (Large)
G	5	Hex Bolt, 5/16" x 1-3/4"	BB	6	Washer, 5/8"
H	3	Hex Bolt, 1/4" x 1-3/4"	CC	8	Washer, 1/2" (Large)
I	6	Carriage Bolt, 3/8" x 1"	DD	2	Washer, 3/4"
J	2	Carriage Bolt, 5/16" x 1"	EE	2	Washer, 1"
K	2	Carriage Bolt, 1/4" x 3/4"	FF	3	Hairpin Cotter, Long
L	1	Slotted Truss Head Bolt, 10-32 x 5/8"	GG	4	Hairpin Cotter, Short
M	2	Nylock Nut, 5/8"	HH	2	Cotter Pin, 1/8" 1-1/2"
N	2	Nylock Nut, 1/2"	II	6	Cotter Pin, 1/8" x 1-1/4"
O	3	Nylock Jam Nut, 1/2"	JJ	4	Spacer, 1/2"
P	2	Hex Nut, 3/8"	KK	1	Spacer, 3/8" Small
Q	8	Nylock Nut, 3/8"	LL	2	Clevis Pin
R	12	Nylock Nut, 5/16"	MM	1	Compression Spring
S	5	Nylock Nut 1/4"	NN	6	Cable Tie
T	1	Hex Nut, 1/4"	OO	2	Tilt Stop Bracket
U	1	Nylock Nut, #10-32	PP	1	Hose Clip

## CARTON CONTENTS

- |                            |                             |                                |
|----------------------------|-----------------------------|--------------------------------|
| 1. Bucket Assembly         | 8. Right (Short) Side Plate | 15. Lift Handle Tube           |
| 2. Pin Stop Bracket        | 9. Left (Short) Side Plate  | 16. Dump Handle Tube Extension |
| 3. Lift Frame Assembly     | 10. Dump Control Rod        | 17. Dump Pivot Bracket         |
| 4. Lift Bracket Assembly   | 11. Lift Strap Assembly (2) | 18. Lift Handle Tube Extension |
| 5. Tilt Anchor Assembly    | 12. Tilt Bracket Assembly   | 19. Dump Control Pin           |
| 6. Right (Long) Side Plate | 13. Attachment Rod          | 20. Lift Cable (Short)         |
| 7. Left (Long) Side Plate  | 14. Dump Handle Tube        | 21. Dump Cable (Long)          |



# ASSEMBLY

## TOOLS REQUIRED FOR ASSEMBLY

- (1) #2 Phillips Screwdriver
- (1) Standard Screwdriver
- (2) 15/16" Wrenches (one should be box-end)
- (2) 3/4" Wrenches
- (2) 9/16" Wrenches
- (2) 7/16" Wrenches
- (2) 1/2" Wrenches
- (1) 3/8" Wrench

## ADDITIONAL ITEMS NEEDED

Ruler or Tape Measure  
Grease

## REMOVE PARTS FROM CARTON

- Remove the hardware pack and all loose parts from the carton.
- Lay cardboard on floor to help prevent scratching of painted parts.
- Lay out and identify all the parts and hardware as shown on pages 4 through 6.

## ASSEMBLE SCOOP

### STEP 1: INSTALL TWO BOLTS (SEE FIGURE 1)

- Assemble two 3/8" x 1-1/4" hex bolts (D) and 3/8" hex nuts (P), threading the nut all the way onto the bolt until it is tight against the head of the bolt.
- Install a nut/bolt assembly into the bucket assembly and fasten using a 3/8" nylock nut (Q). **Tighten.** Repeat for the other side.

### STEP 2: INSTALL PIN STOP BRACKET (SEE FIGURE 1)

- Install the pin stop bracket to the top of the bucket assembly using four 5/16" x 1" hex bolts (F), eight 5/16" washers (X) and four 5/16" nylock nuts (R). Center the bolts in the slots of the pin stop bracket and the slots of the bucket. Tighten the bracket so that it is square with the bucket.

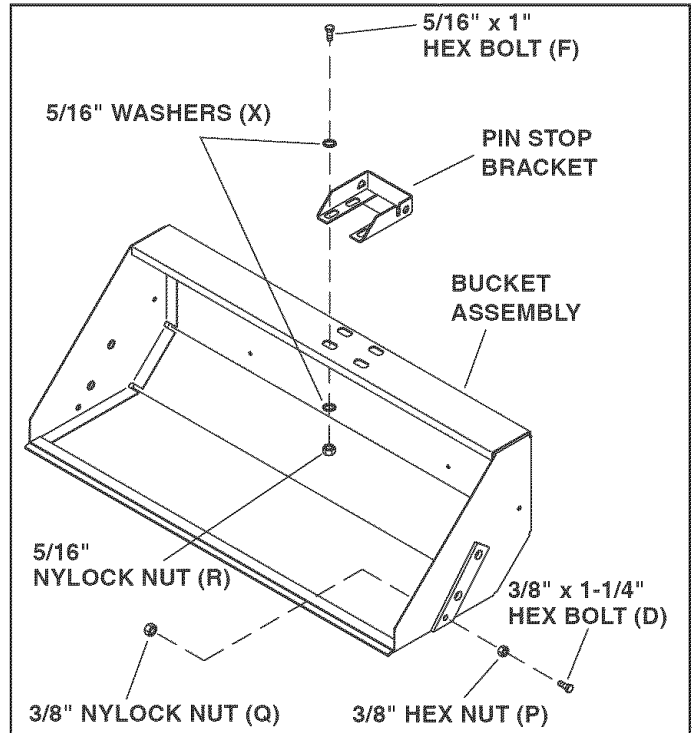


FIGURE 1

### STEP 3: INSTALL LIFT FRAME ASSEMBLY (SEE FIGURE 2)

- Apply grease to the mounting surface of the bucket assembly and the inside of the lift frame arms.
- Assemble the lift frame assembly to the bucket assembly using two 5/8" x 1-1/2" hex bolts (A) and 5/8" nylock nuts (M). **Tighten, then loosen** the nuts 1/4 turn, or until the lift frame pivots freely.

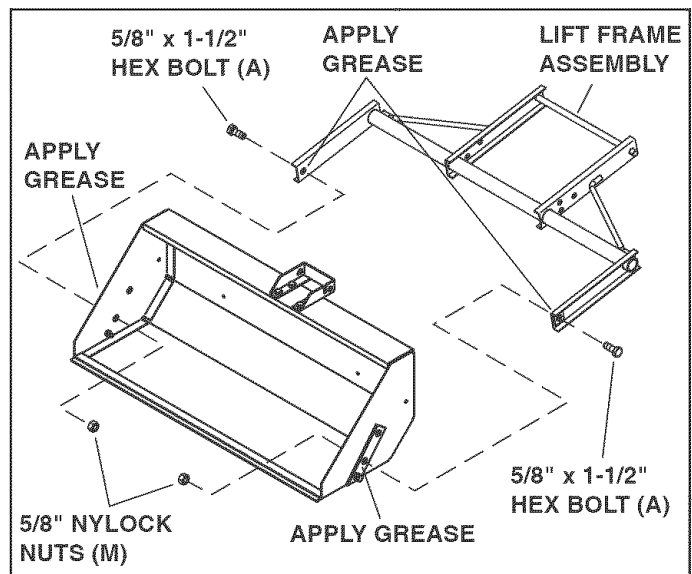


FIGURE 2

#### STEP 4: INSTALL LIFT BRACKET ASSEMBLY (SEE FIGURE 3)

- Assemble the lift bracket assembly to the lift frame assembly using two 5/8" washers (BB) and 1/8" x 1-1/4" cotter pins (II).

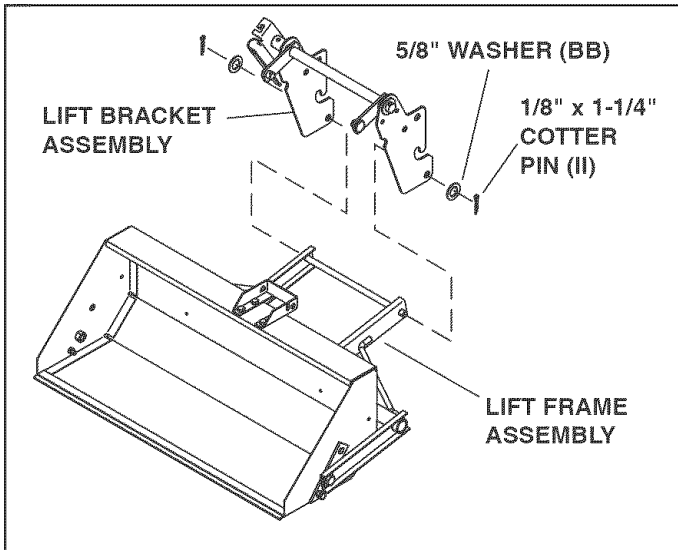


FIGURE 3

#### STEP 5: INSTALL TILT ANCHOR ASSEMBLY (SEE FIGURE 4)

- Assemble the tilt anchor assembly to the lift bracket assembly using two 1/2" x 1" hex bolts (C) and 1/2" nylock jam nuts (O). **Tighten.**

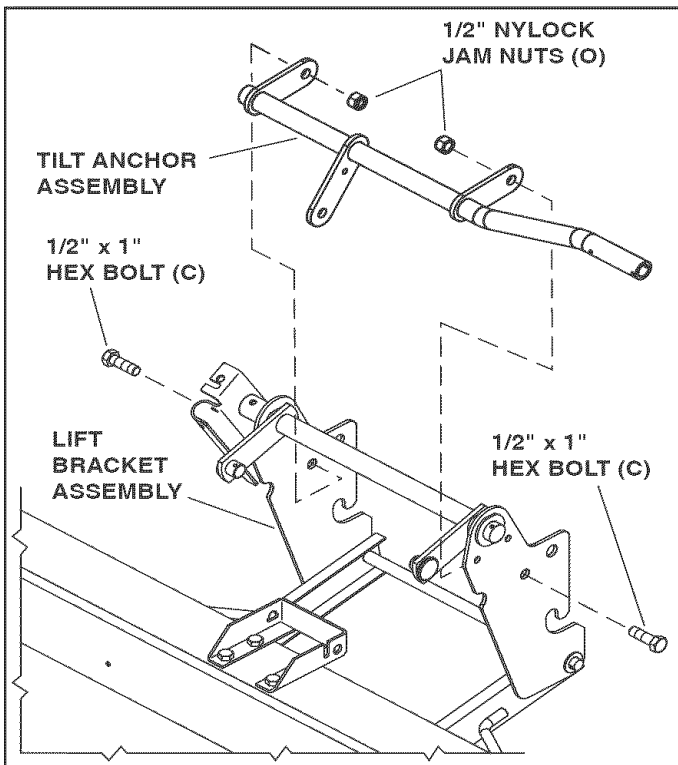


FIGURE 4

#### STEP 6: INSTALL LIFT STRAP ASSEMBLIES (SEE FIGURE 5)

- Loosen the bolts and nuts** on the lift strap assemblies 1/4 turn or until the straps will slide back and forth. You will retighten them later in step 27.
- Turn the lift strap assemblies as shown. Install each lift strap assembly to an arm of the lift bracket assembly and then secure with a small 1/2" washer (Z) and a short hairpin cotter (GG).
- Position the lower end of each lift strap assembly to the outside of the lift frame. Fasten to the upper front holes in the lift frame using a 1/2" x 1" clevis pin (LL), 1/2" spacer (JJ) and short hairpin cotter (GG) for each assembly.

**NOTE:** The lift strap assemblies may be installed in the rear mounting holes of the lift frame to increase the lift height, but this will also increase the lifting effort. The front holes give a lift height of about 6-1/2" and require 28 lbs. of force to lift a 150 lb load. The rear holes will give a lift height of about 8-1/2" and require 35 lbs. of force.

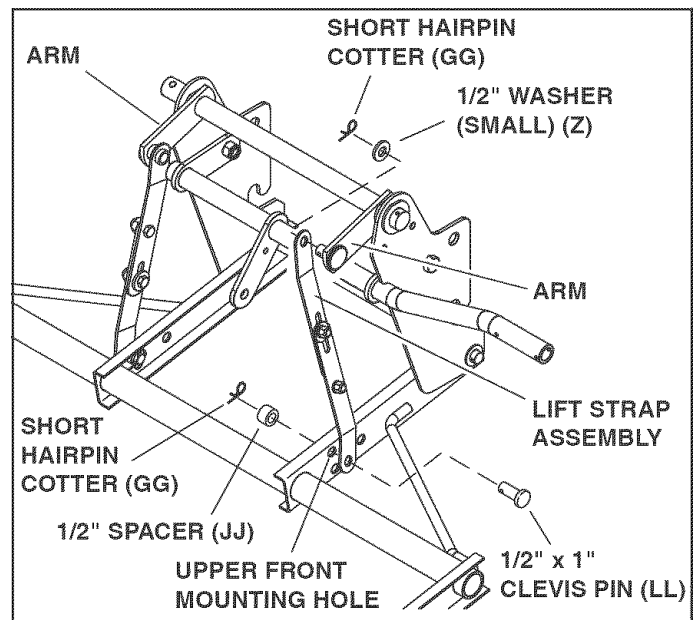


FIGURE 5 Bucket removed for clarity

#### STEP 7: INSTALL TILT BRACKET ASSEMBLY (SEE FIGURE 6 ON NEXT PAGE)

- If you mounted the lift strap assemblies in step 6 to the rear holes instead of the front holes in the lift frame, replace the spacer on the tilt bracket assembly with the smaller 3/8" spacer (KK) from the parts bag at this time.
- Loosen the bolts and nuts** on the tilt bracket assembly 1/4 turn or until the two plates of the assembly will slide back and forth. You will retighten them later in step 26.



- Lightly apply grease to the end of the arm on the tilt anchor assembly and install the tilt bracket assembly to the arm using a 1/2" x 1" hex bolt (C) and 1/2" nylock jam nut (O). **Tighten.** Loosen the nut 1/4 turn, or until the tilt bracket assembly pivots freely.
- Install a 1/4" x 1-3/4" hex bolt (H) through a 1/4" washer (W) and then through the end of the extension spring on the tilt bracket assembly. Next, install a 1/4" hex nut (T) all the way onto the threads of the bolt. Finally install the end of the bolt into the hole in the arm of the tilt anchor assembly and secure using a 1/4" nylock nut (S). **Tighten.**

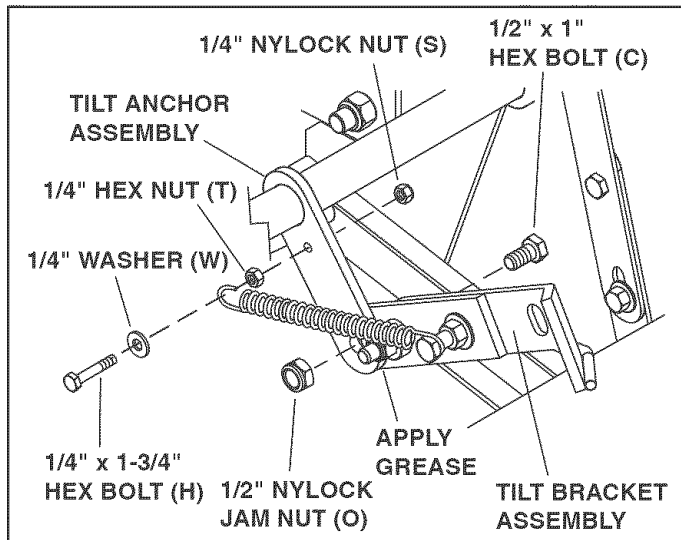


FIGURE 6

#### STEP 8: INSTALL DUMP PIVOT BRACKET (SEE FIGURE 7)

- Install a 1/8" x 1-1/2" cotter pin (HH) to the inside hole in the shaft shown in figure 7, and then install a 1" washer (EE) onto the shaft. Apply grease to the end of the shaft and install the dump pivot bracket assembly onto the shaft. Install a 1" washer (EE) onto the shaft and secure it using a 1/8" x 1-1/2" cotter pin (HH).

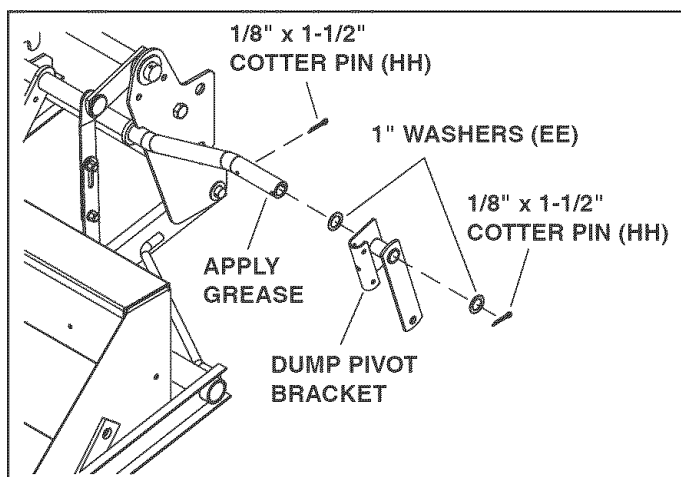


FIGURE 7

#### STEP 9: INSTALL DUMP CONTROL ROD (SEE FIGURE 8)

- Install a 1/8" x 1-1/4" cotter pin (II) into the inside hole in each end of the dump control rod. Spread the ends of the cotter pins and wrap around the rod. Install a 5/8" washer (BB) onto each end of the control rod.
- Install the dump control rod to the dump pivot bracket and bucket. Fasten using two 5/8" washers (BB) and 1/8" x 1-1/4" cotter pins (II). Spread the ends of the cotter pins and wrap around the rod.

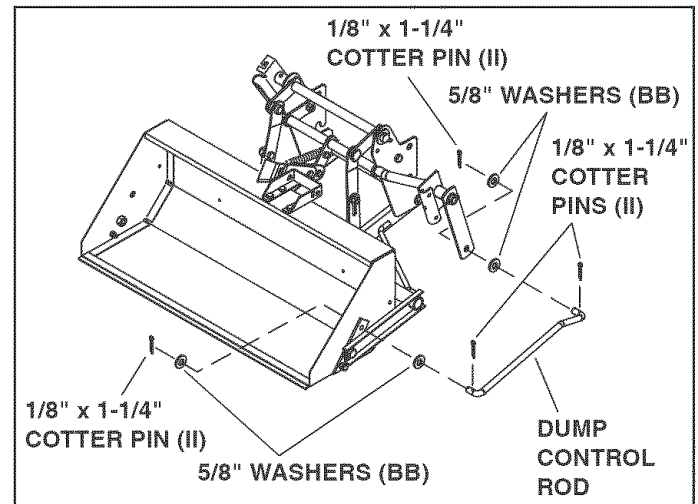


FIGURE 8

#### STEP 10: INSTALL TILT STOP BRACKETS (SEE FIGURE 9)

- Install a tilt stop bracket (OO) to each side of the bucket using a 1/4" x 3/4" carriage bolt (K), 1/4" washer (W) and 1/4" nylock nut (S). **Do not tighten** the nuts until step 28.

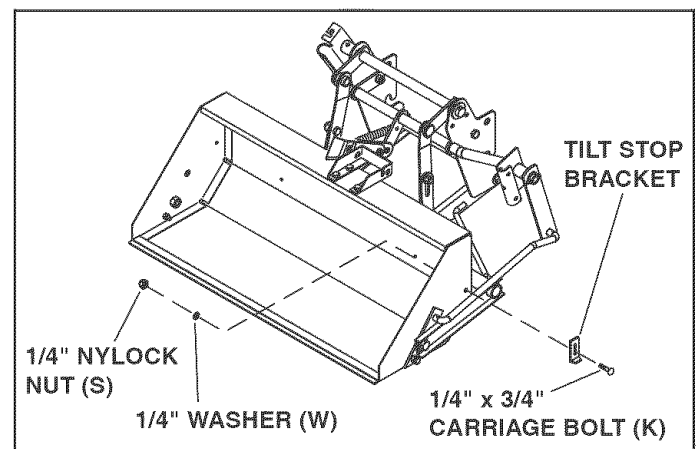
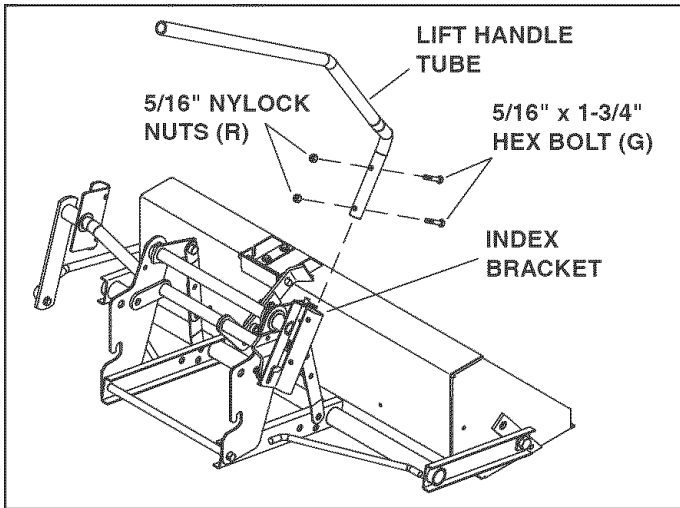


FIGURE 9

**STEP 11: INSTALL LIFT HANDLE TUBE  
(SEE FIGURE 10)**

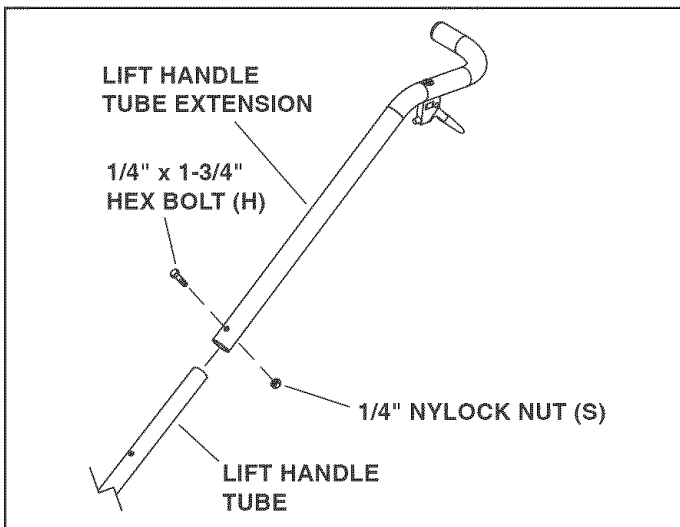
- Install the lift handle tube into the index bracket using two 5/16" x 1-3/4" hex bolts (G) and 5/16" nylock nuts (R).



**FIGURE 10**

**STEP 12: INSTALL LIFT HANDLE TUBE EXTENSION  
(SEE FIGURE 11)**

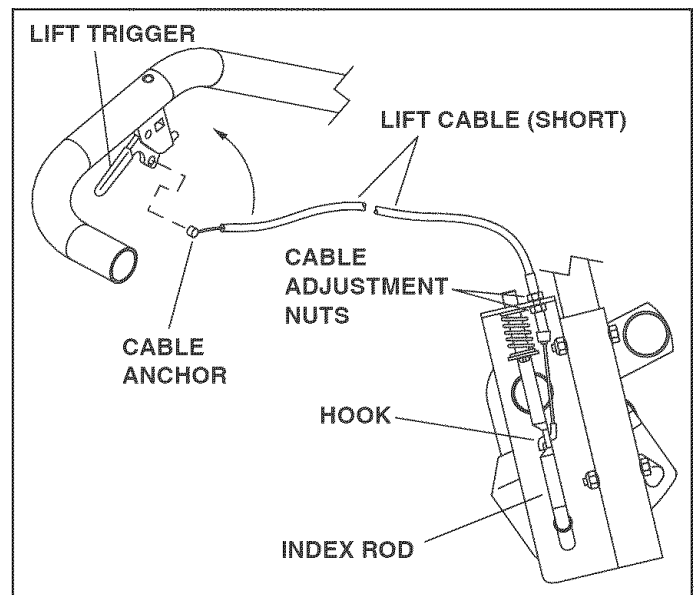
- Install the lift handle tube extension on the lift handle tube using a 1/4" x 1-3/4" hex bolt (H) and 1/4" nylock nut (S).



**FIGURE 11**

**STEP 13: INSTALL LIFT CABLE  
(SEE FIGURE 12)**

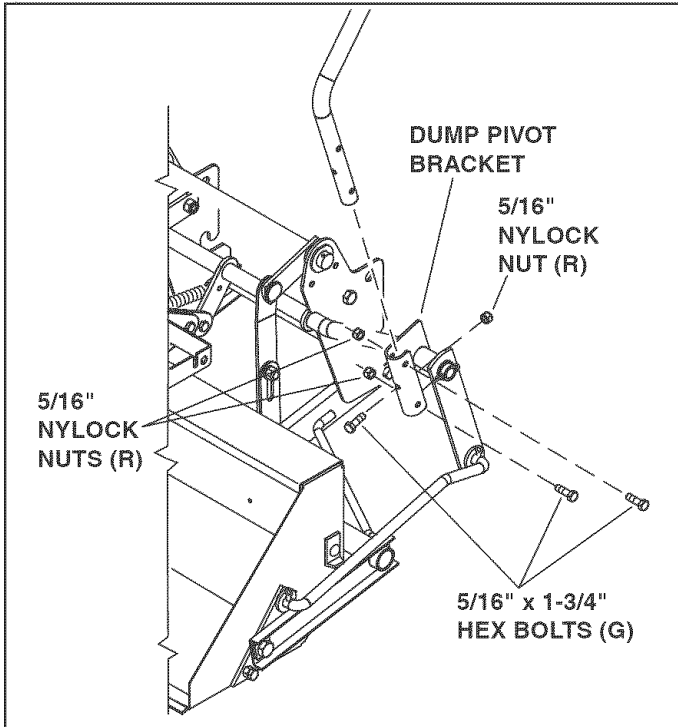
- Squeeze the lift trigger and slide the anchor end of the lift cable (short) into the hole in the trigger. Release the trigger and guide the cable through the slot in the bottom of the trigger and trigger housing. Insert the end of the plastic cable covering into the trigger housing.
- Connect the hooked end of the lift cable into the index rod, and install the threaded cable adjuster into the notch in the top of the index bracket, placing a nut on each side of the notch.
- Adjust the cable adjustment nuts so that when the trigger is squeezed, the bottom of the index rod raises enough to release from the latched position. The index rod should also lower far enough to lock in the latched position when the trigger is released.
- Attach the lift cable to the lift handle using three cable ties (NN).



**FIGURE 12**

**STEP 14: INSTALL DUMP HANDLE TUBE  
(SEE FIGURE 13)**

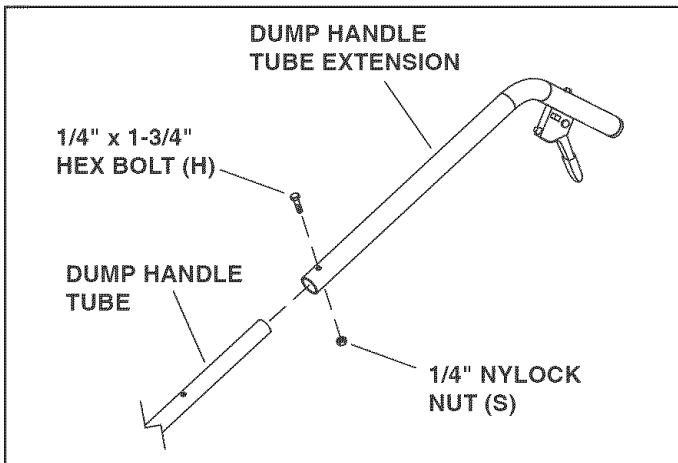
- Install the dump handle tube to the dump pivot bracket assembly using three 5/16" x 1-3/4" hex bolts (G) and 5/16" nylock nuts (R).



**FIGURE 13**

**STEP 15: INSTALL DUMP HANDLE TUBE EXTENSION  
(SEE FIGURE 14)**

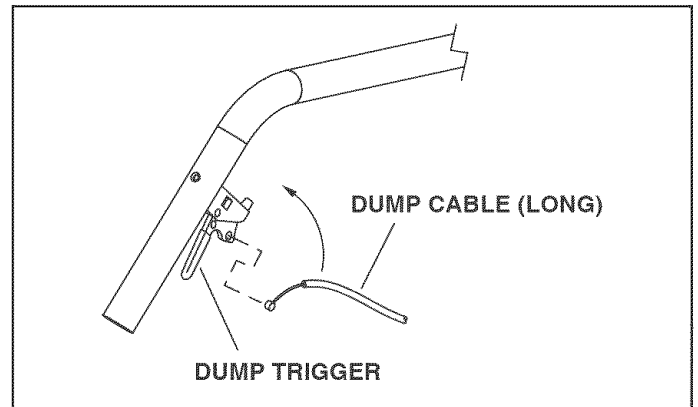
- Install the dump handle tube extension on the dump handle tube using a 1/4" x 1-3/4" hex bolt (H) and 1/4" nylock nut (S).



**FIGURE 14**

**STEP 16: INSTALL DUMP CABLE  
(SEE FIGURE 15)**

- Squeeze the dump trigger and slide the anchor end of the dump cable wire (long) into the hole in the trigger. Release the trigger and guide the cable wire through the slot in the bottom of the trigger and trigger housing. Insert the end of the plastic cable covering into the trigger housing.
- Attach the dump cable to the dump handle tube using three cable ties (NN).



**FIGURE 15**

### STEP 17: INSTALL DUMP CONTROL PIN (SEE FIGURE 16)

- Install a small 1/2" washer (Z) and then the compression spring (MM) onto the dump control pin. Install the dump control pin into the pin stop bracket. Make sure the flat side of the pin faces to the front when finished.
- Connect the hooked end of the dump cable into the hole in the dump control pin. Install the threaded cable adjuster down into the notch in the pin stop bracket, placing a nut on each side of the notch. Adjust and tighten the adjuster nuts so that the tapered end of the dump control pin extends 3/4" through the side of the pin stop bracket.

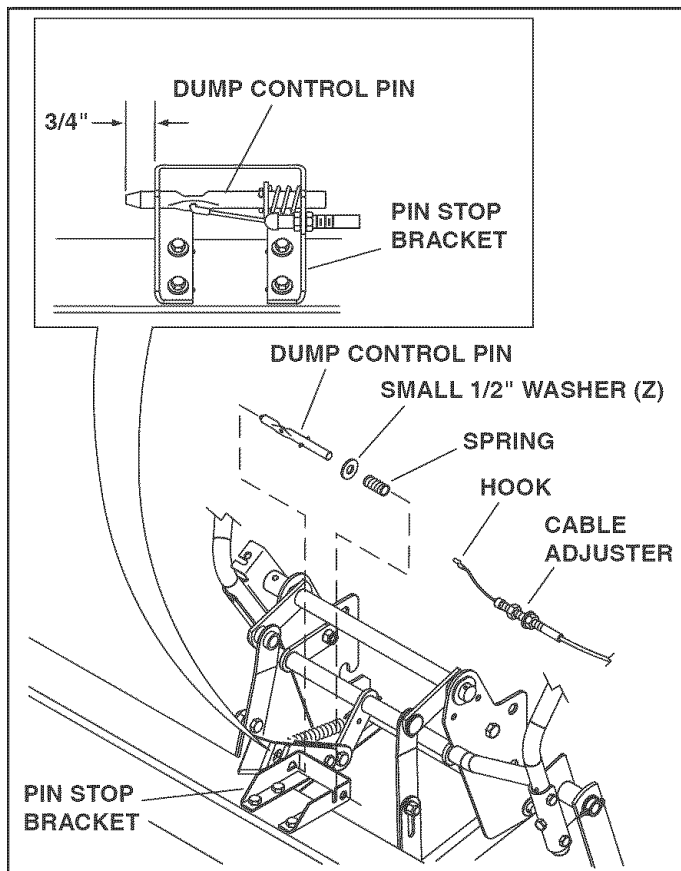


FIGURE 16

### STEP 18: INSTALL HOSE CLIP AND SPACER (SEE FIGURE 17)

- Secure the dump cable to the back of the bucket using a hose clip (PP), a #10 x 5/8" truss-head bolt (L) and a #10-32 nylock nut (U).
- Fasten the unused spacer to the lift frame to store it, using a 5/16" x 1" hex bolt (F) and 5/16" nylock nut (R). The spacer will be either the 3/8" spacer that was supplied in the parts bag or the spacer it replaced in step 7.

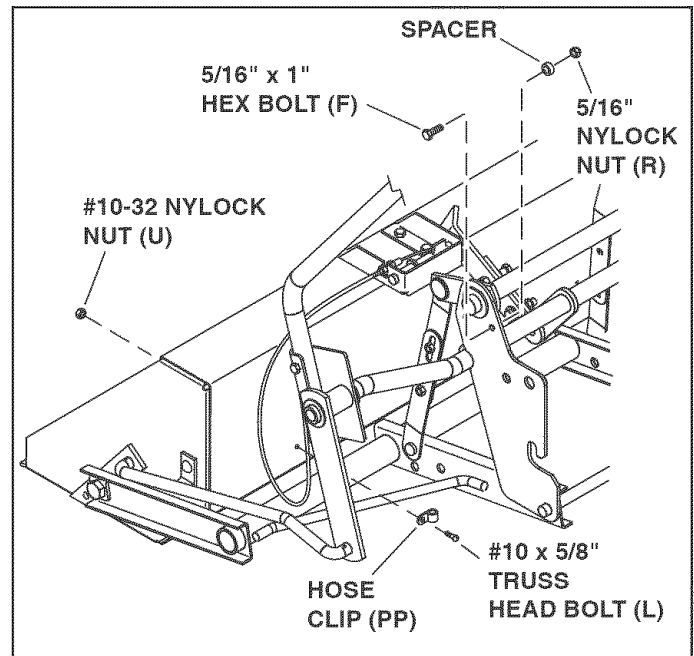


FIGURE 17

## INSTALL FRONT SCOOP ON TRACTOR

### STEP 19: IDENTIFY YOUR TRACTOR TYPE (SEE FIGURE 18)

- Look under the front of your tractor. If there is a single mower deck suspension bracket located underneath the middle of the front axle, continue on to step 20 on page 13. If your tractor does not have a mower deck suspension bracket underneath the middle of the front axle, skip to step 22 or 24 on page 14 for tractors with dual suspension brackets.

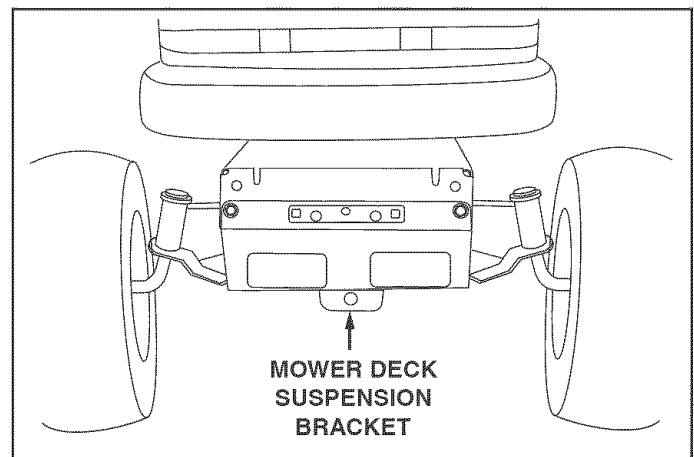


FIGURE 18

## LAWN TRACTORS AND GARDEN TRACTORS WITH SINGLE SUSPENSION BRACKETS

### STEP 20: INSTALL SIDE PLATES (SEE FIGURE 19)

- Remove any bolts present in the mounting holes on the left side of the tractor frame. **Do not remove** bolts from right side of frame until left side plate has been installed.
- Install the left (long) side plate on the tractor frame using three 3/8" x 1" carriage bolts (I), three 3/8" nylock nuts (Q), one 5/16" x 1" carriage bolt (J), one 5/16" nylock nut (R) and three large 1/2" washers (CC) if needed (see note). **Do not tighten yet.** Repeat for the right side plate.

**NOTE:** If an engine mounting plate is present (shown with dotted lines) that prevents the side plate from resting flat against the tractor frame, place 1/2" washers (CC) on the front two bolts and the rear bolt as shims between the side plate and the frame.

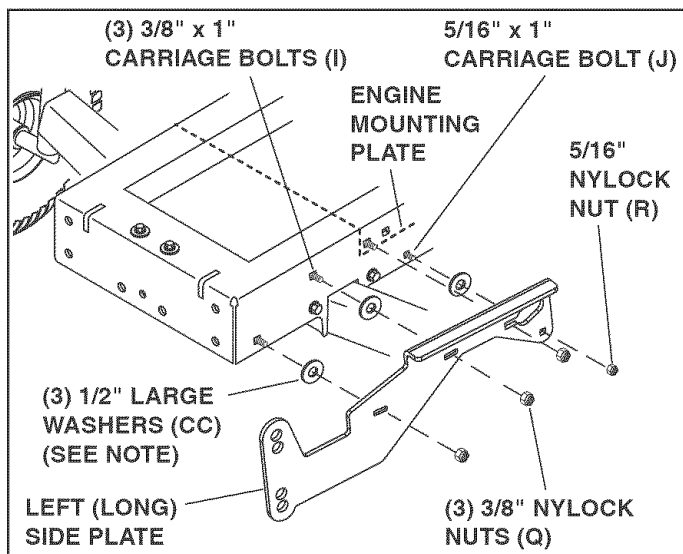


FIGURE 19

### STEP 21: INSTALL FRAME BRACE (SEE FIGURE 20)

- Install the frame brace to the inside of the side plates using two 1/2" x 1-3/4" bolts (B), large 1/2" washers (CC), 1/2" spacers (JJ) and 1/2" nylock nuts (N). Install the brace in the bottom holes for Garden (GT) Tractors and the second from bottom holes for Lawn (LT) Tractors. **Do not tighten yet.**
- Tighten all nuts on side plates and frame brace.
- Skip to step 25 on page 15.**

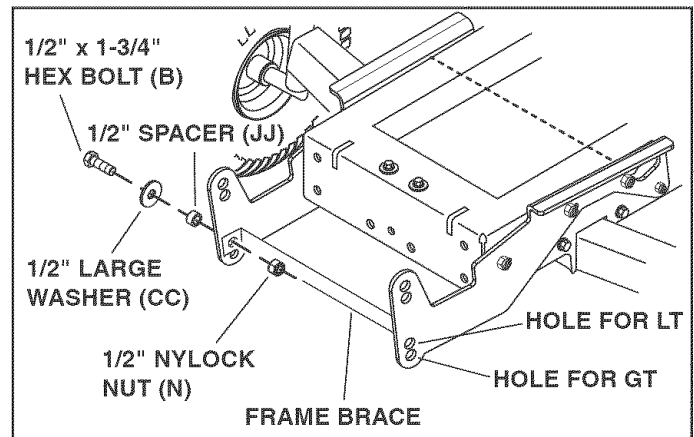


FIGURE 20

## LAWN TRACTORS WITH DUAL SUSPENSION BRACKETS

### STEP 22: INSTALL SIDE PLATES (SEE FIGURE 21)

- Remove any bolts present in the mounting holes on the left side of the tractor frame. **Do not remove** bolts from right side of frame until done with left side plate.
- Fasten the left (long) side plate to the tractor frame using three 3/8" x 1" hex bolts (E), 3/8" small washers (Y), and 3/8" lock washers (V). If there is a bracket like the one shown with dotted lines, use a 3/8" large washer (AA) as a shim on the rear bolt. **Do not tighten yet.**

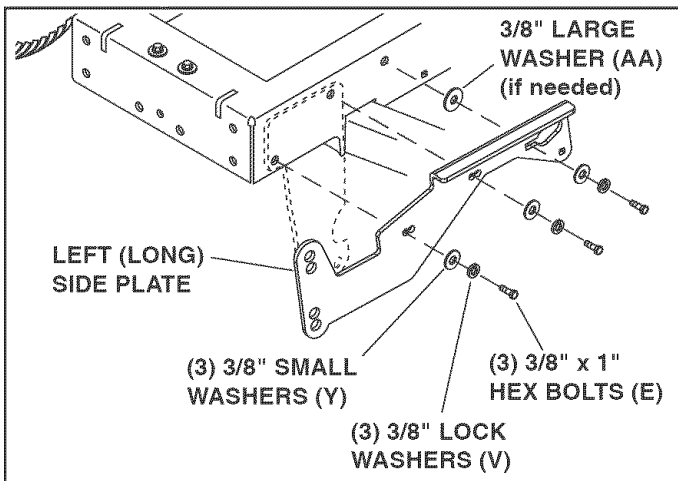


FIGURE 21

### STEP 23: INSTALL FRAME BRACE (SEE FIGURE 22)

- Install the frame brace between the side plates using two 1/2" x 1-3/4" bolts (B), large 1/2" washers (CC), 1/2" spacers (JJ) and 1/2" nylock nuts (N). Fasten the brace to the second from bottom holes in the side plates. **Tighten.**
- Tighten** 3/8" bolts (E) in side plates only until they are snug and the lock washers are flattened.
- Skip to step 25 on page 15.**

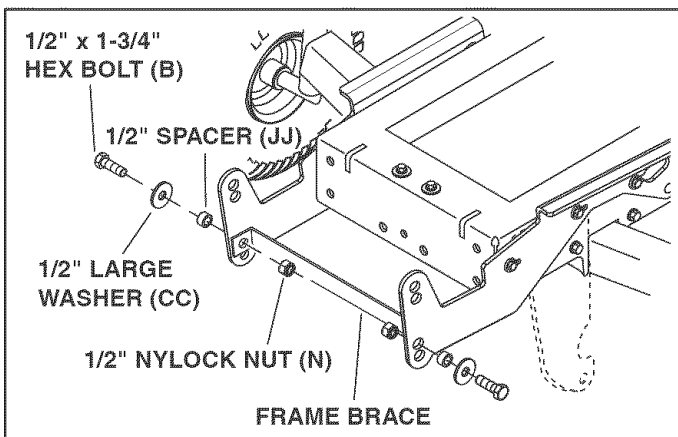


FIGURE 22

## GARDEN TRACTORS WITH DUAL SUSPENSION BRACKETS

### STEP 24: INSTALL SIDE PLATES (SEE FIGURE 23)

- Remove any bolts present in the mounting holes on the left side of the tractor frame. **Do not remove** bolts from right side of frame until left side plate has been installed.
- Install the left (short) side plate with the pin to the outside using two 3/8" x 1" hex bolts (E) and 3/8" lock washers (V). Tighten only until bolts are snug and lock washers are flattened. Repeat for the right side plate.
- Install a 3/4" washer (DD) and a long hairpin cotter (FF) to the pin in each side plate. Remove them while mounting the scoop.

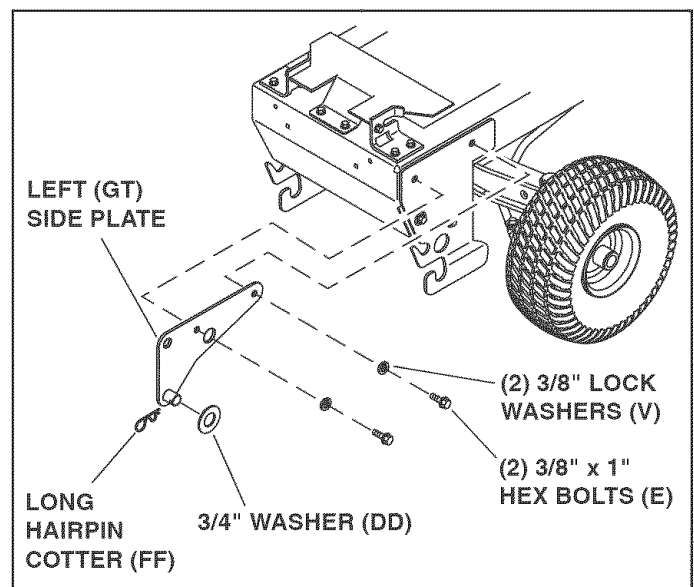


FIGURE 23

## INSTRUCTIONS FOR ALL TRACTORS

### STEP 25: MOUNT SCOOP TO TRACTOR (SEE FIGURE 24)

- Align the scoop with the side plates on the front of the tractor. Lift the rear of the scoop and slide the notches in the scoop frame onto the bolts or pins in the tractor side plates. Stand on the left side of the tractor and push down on the scoop dump handle until the holes in the scoop frame and the holes in the side plates are aligned. Install the attachment rod through the holes from the left side and secure it with a long hairpin cotter (FF).

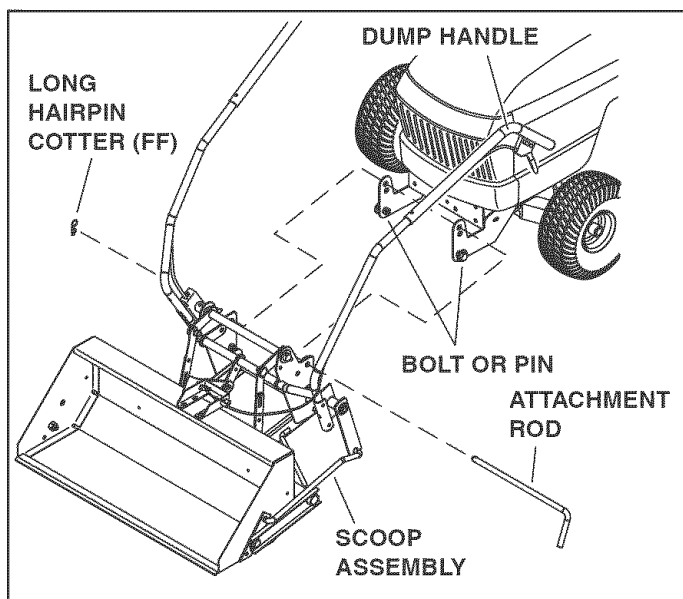


FIGURE 24

### STEP 26: ADJUST TILT BRACKET ASSEMBLY (SEE FIGURE 25)

- Lower the scoop assembly onto a smooth level surface. For normal use, let the bottom of the bucket rest flat on the ground. For more aggressive scraping action, place 1/4" shims under the rear of the bucket at each end.
- Swing the tilt bracket forward to check for clearance with the pin stop bracket. There should be a small gap between the tilt bracket and the side of the pin stop bracket. If not, adjust the position of the pin stop bracket side to side.
- Make sure the two bolts in the tilt bracket are loose enough to turn by hand. Align the tilt bracket so that the dump control pin snaps into the hole in the tilt bracket. The tapered end of the pin should extend clear through the tilt bracket. **Tighten the two bolts and nuts** in the tilt bracket.

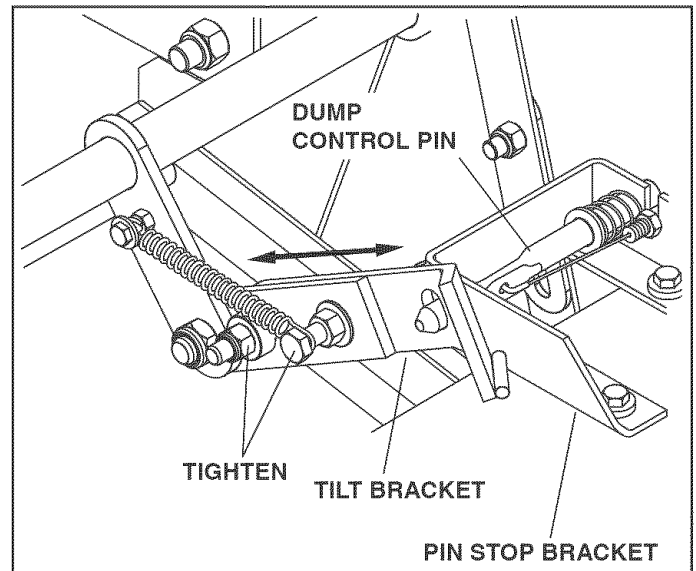


FIGURE 25

### STEP 27: ADJUST LIFT STRAPS

(SEE FIGURE 26)

- Make sure the nuts and bolts in the lift straps are loose enough to turn by hand. Stand on the right side of the scoop and **hold the lift handle as far forward as it will go** while you tighten one of the nuts in the lift straps. You can let go of the lift handle to tighten the other three nuts in the lift straps.

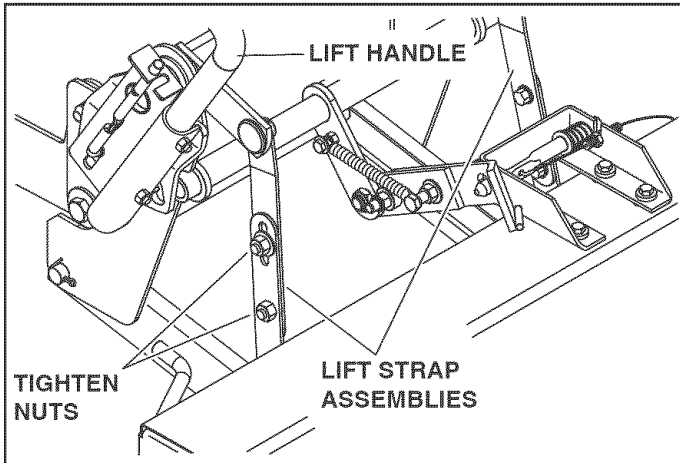


FIGURE 26

### STEP 28: ADJUST TILT STOP BRACKETS

(SEE FIGURE 26)

- Raise the scoop until it locks in the TRANSPORT position. Push the tilt stop brackets (OO) on each side of the bucket down against the lift frame arms, and tighten the nuts.

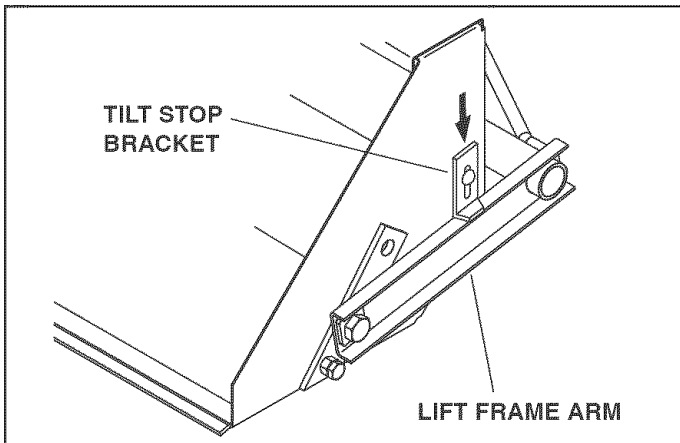


FIGURE 27

### STEP 29: CHECK DUMPING OPERATION

- With the scoop in the transport position, squeeze the dump trigger and push down on the dump handle to dump the bucket. Release the dump trigger and lift up on the handle to lock the bucket in the upright position. If the dump control pin passes underneath the tilt bracket instead of locking into it, move the pin stop bracket on top of the bucket farther towards the rear. If this does not work, repeat steps 26, 27 and 28.

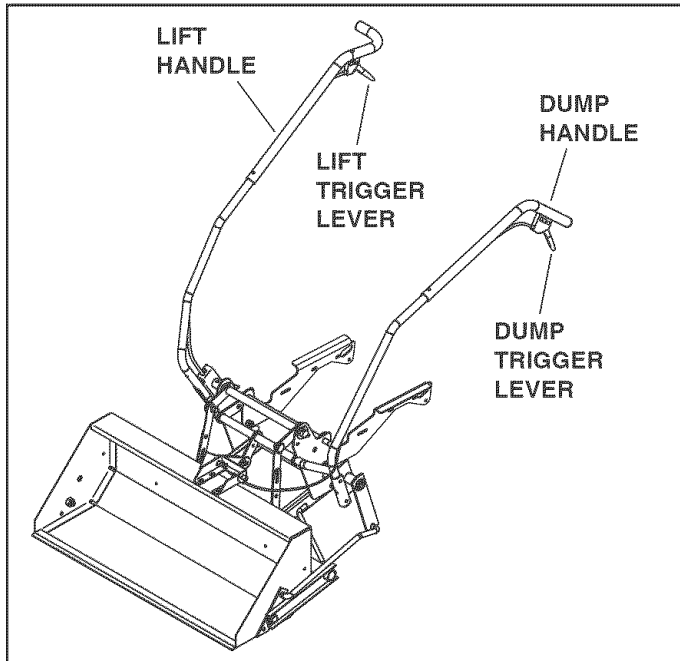


## OPERATION

### KNOW YOUR FRONT END SCOOP

**Read this owner's manual and safety rules before operating your front end scoop.**

Compare the illustration below with your front end scoop to familiarize yourself with the various controls and their locations.



**DUMP TRIGGER LEVER** Press to release the dump pin.

**DUMP HANDLE** Press down to dump the bucket.

**LIFT TRIGGER LEVER** Press to release the index pin.

**LIFT HANDLE** Press down to lift the bucket assembly.

### HOW TO USE YOUR SCOOP

#### DO NOT EXCEED 200 LB. CAPACITY OF BUCKET

*One cubic foot of dirt weighs approximately 80 lbs.*

*One cubic foot of dry sand or gravel weighs approximately 100 lbs.*



**CAUTION:** Vehicle braking and stability may be affected with the addition of an accessory or an attachment. Be aware of changing conditions on slopes.

- Refer to the vehicle owner's manual for instructions on safe operation on slopes.
- Use the slope guide provided on page 23 of this manual to determine whether slope angle is too steep for safe operation.

- Always test to make sure your vehicle has adequate power and braking capabilities whenever hauling a substantial amount of weight in your front end scoop. Use extra caution when operating on slopes.
- For best handling and traction, distribute the weight of the load evenly in the bucket.



**CAUTION:** Never ram the scoop into material at high speeds.

- Keep the lift handle locked in the raised position when tilting the scoop bucket forward to dump.
- The lift handle must be locked in the raised position to allow the dump handle to lock the scoop bucket back in the upright position after dumping.
- Do not scrape or push material with the scoop bucket while it is tilted forward.
- Add wheel weights for improved traction when using the scoop.
- To dump material from the bucket, squeeze the dump trigger and push the dump tube handle down. Release the trigger before returning the bucket to the upright position.
- To lower the bucket, squeeze the lift trigger and then lift up on the lift handle. If the trigger is hard to depress, you may need to push down on the lift handle while squeezing, and then lift up. Release the trigger before returning the bucket to the raised position.
- Do not exceed mowing speed (3 mph) when the front end scoop is attached to the tractor.



**CAUTION:** To avoid possible injury, make sure that no one is near the bucket before dumping the bucket.



**CAUTION:** Always lower the scoop bucket to the ground before leaving the tractor.

# MAINTENANCE

## CUSTOMER RESPONSIBILITIES

- Read and follow the maintenance schedule and the maintenance procedures listed in this section.

MAINTENANCE SCHEDULE																
Fill in dates as you complete regular service.																
		Before each use	After each use	Every season	Before storage											
Check for loose fasteners	X															
Cleaning		X														
Lubrication			X													

## CHECK FOR LOOSE FASTENERS

- Before each use make a thorough visual check of the front end scoop for any bolts and nuts which may have loosened. Retighten any loose bolts and nuts.

## CLEANING

- After each use, clean off any dirt and debris from the scoop bucket lift frame.
- Before storing at the end of each season, rinse off the scoop bucket and scoop lift frame. Allow to dry thoroughly. Paint any exposed metal surfaces to protect from rust.
- Store in a clean, dry area.

## LUBRICATION

- Lightly oil all pivot points on the scoop lift mechanism.
- Lightly oil the surface on the scoop bucket where the attachment lift frame pivots.
- Apply a good grade of spray lubricant to the trigger assemblies on the lift handle and dump handle.

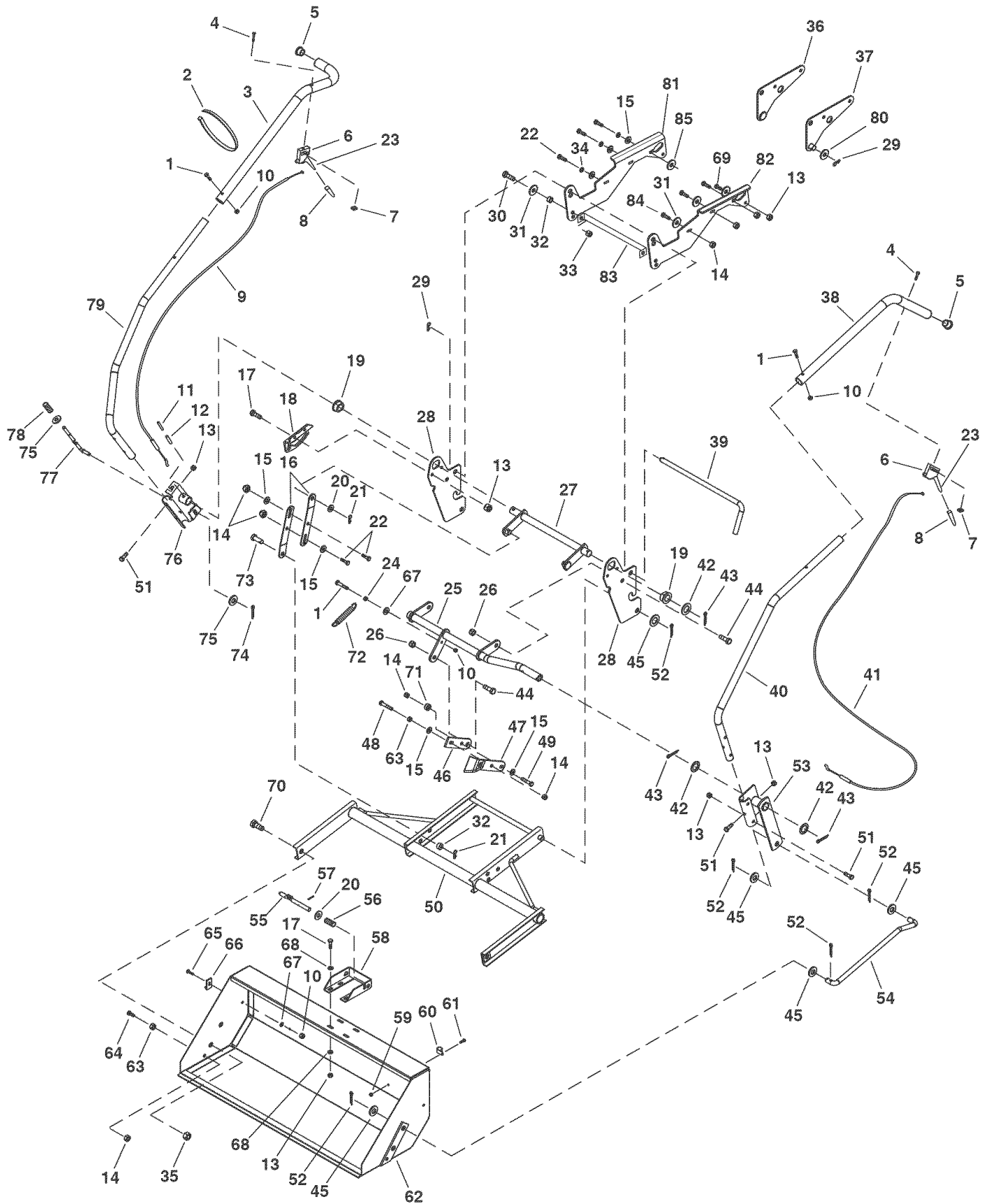
# TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Scoop won't lock into raised/transport position.	<ol style="list-style-type: none"> <li>Index rod is jamming.</li> <li>Frame is hitting tilt stop brackets.</li> </ol>	<ol style="list-style-type: none"> <li>Apply grease to the bottom slot in the lift bracket, where the index rod slides</li> <li>Adjust the tilt stop brackets as instructed on page 16.</li> </ol>
Scoop bucket won't lock into level position	<ol style="list-style-type: none"> <li>Dump control pin is not aligned with the tilt bracket</li> </ol>	<ol style="list-style-type: none"> <li>Adjust the tilt bracket and lift straps as instructed on page 16.</li> </ol>
Lift handle trigger won't release scoop from the transport position.	<ol style="list-style-type: none"> <li>Index rod is jamming.</li> <li>Lift cable is not adjusted properly</li> </ol>	<ol style="list-style-type: none"> <li>Apply grease to the bottom slot in the lift bracket, where the index rod slides.</li> <li>Adjust cable nuts as instructed on page 10.</li> </ol>
Dump handle trigger won't release bucket to dump	<ol style="list-style-type: none"> <li>Dump control cable is not adjusted properly</li> <li>Latch mechanism is not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>Adjust parts as instructed for figure 15 on page 11.</li> <li>Adjust parts as instructed for figure 16 on page 12.</li> </ol>
Bucket is becoming more difficult to tilt up or down.	<ol style="list-style-type: none"> <li>Debris is lodged between bucket assembly and lift frame.</li> </ol>	<ol style="list-style-type: none"> <li>Remove all debris from between the bucket assembly and the lift frame.</li> </ol>

## NOTES

# PARTS

## REPAIR PARTS FOR MODEL 486.248471



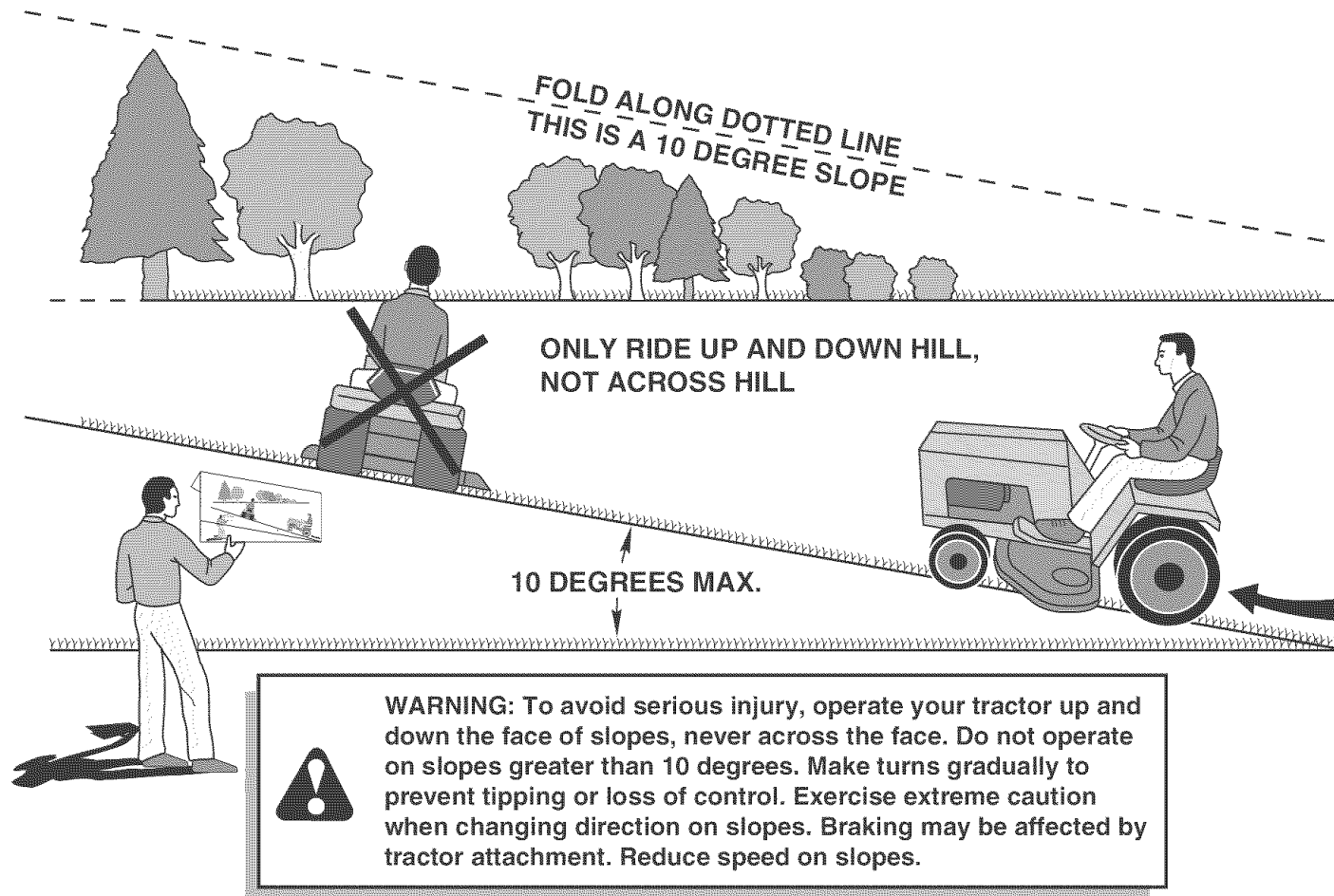
## REPAIR PARTS FOR MODEL 486.248471

REF NO.	PART NO.	QTY	DESCRIPTION	REF NO.	PART NO.	QTY	DESCRIPTION
1	1509-69	3	Hex Bolt, 1/4-20 x 1-3/4" (Grade 5)	45	R19212016	6	Flat Washer, 5/8" x 1-1/4" x 16 Ga.
2	726-0178	6	Cable Tie	46	25362	1	Tilt Bracket Extension Strap
3	49265	1	Lift Handle Extension	47	64983	1	Tilt Bracket
4	49266	2	Oval Screw, 10-24 x 1-1/2"	48	HA6441	1	Hex Bolt, 3/8-16 x 2" (Grade 5)
5	47674	2	Plastic Plug, 1-1/4" O.D. Tube	49	41576	1	Hex Bolt, 3/8-16 x 1-3/4" (Grade 5)
6	47554	2	Trigger Housing Assembly	50	64963	1	Lift Frame Assembly
7	712-0127	2	Square Nut, #10-24	51	43084	5	Hex Bolt, 5/16-18 x 1-3/4" (Grade 5)
8	47317	2	Grip, Black	52	43010	6	Cotter Pin, 1/8" x 1-1/4"
9	47555	1	Cable, Lift	53	64968	1	Dump Pivot Bracket
10	47189	5	Nylock Nut, 1/4"	54	49273	1	Dump Control Rod
11	47369	1	Roll Pin, 3/16" x 1-3/4"	55	49268	1	Dump Control Pin
12	47368	1	Roll Pin, 5/16" x 1-3/4"	56	48905	1	Compression Spring
13	47810	14	Nylock Nut, 5/16-18	57	46055	1	Spring Pin, 1/8" x 1"
14	HA21362	14	Nylock Nut, 3/8-16	58	25335	1	Pin Stop Bracket
15	43070	12	Flat Washer, 3/8"	59	47171	1	Nylock Nut, #10-32
16	25350	4	Lift Strap	60	HA23761	1	Hose Clamp
17	43063	7	Hex Bolt, 5/16-18 x 1" (Grade 5)	61	43346	1	Truss-Head Bolt #10-32 x 5/8"
18	25343	1	Lift Bracket	62	64962	1	Bucket Assembly
19	741-0192	2	Flange Bearing with Flats	63	43015	3	Hex Nut, 3/8-16
20	R19171616	4	Flat Washer, 1/2" x 1" (Small)	64	43087	2	Hex Bolt, 3/8-16 x 1-1/4" (Grade 5)
21	43055	4	Hairpin Cotter, 3/32" x 1.8"	65	44950	2	Carriage Bolt, 1/4-20 x 3/4" (Grade 5)
22	43001	10	Hex Bolt, 3/8-16 x 1" (Grade 5)	66	25331	2	Tilt Stop Bracket
23	63755	2	Trigger Assembly	67	736-0142	3	Flat Washer, 1/4"
24	43178	1	Hex Nut, 1/4-20	68	43081	8	Flat Washer, 5/16"
25	64964	1	Tilt Anchor Assembly	69	44326	2	Carriage Bolt, 5/16" x 1" (Grade 5)
26	48115	3	Nylock Jam Nut, 1/2-13	70	710-0367	2	Hex Bolt, 5/8-11 x 1-1/2" (Grade 5)
27	63675	1	Lift Arm Assembly	71	25408	1	Spacer, 3/8" I.D. x 7/8" O.D. x 3/8"
28	25510	2	Mounting Bracket		23625	1	Spacer, 3/8" I.D. x 5/8" O.D. x 1/4"
29	43343	3	Hairpin Cotter, 3/32" x 2-5/16"	72	43000	1	Extension Spring
30	R74780828	2	Hex Bolt 1/2-13 x 1-3/4" (Grade 5)	73	44062	2	Clevis Pin, 1/2" x 1"
31	R19172410	8	Flat Washer, 1/2" x 1-1/2" (Large)	74	142	1	Cotter Pin, 1/8" x 3/4"
32	24817	4	Spacer, 0.52" x 0.75" x 0.5"	75	R19131316	2	Flat Washer, 3/8" x 13/16" x 1/16"
33	712-3083	2	Nylock Nut, 1/2-13	76	63773	1	Index Bracket Assembly
34	43003	6	Lock Washer, 3/8"	77	48049	1	Index Rod
35	712-0261	2	Nylock Nut, 5/8-11	78	732-0306	1	Spring, Compression
36	63568	1	Right (Short) Side Plate	79	49264	1	Lift Handle Tube
37	63569	1	Left (Short) Side Plate	80	43009	2	Flat Washer, 3/4"
38	49270	1	Dump Handle Tube Extension	81	25562	1	Right (Long) Side Plate
39	47066	1	Attachment Rod	82	25563	1	Left (Long) Side Plate
40	49271	1	Dump Handle Tube	83	25722	1	Frame Brace
41	49483	1	Dump Control Cable	84	43350	6	Bolt, Carriage 3/8-16 x 1" (Grade 5)
42	43601	3	Washer, 1.59" x 1.032" x 0.60"	85	736-0235	2	Washer, .375" x 1.26" x .172"
43	43093	3	Cotter Pin, 1/8" x 1-1/2"		40089	1	Owner's Manual
44	710-0865	3	Hex Bolt, 1/2-13 x 1" (Grade 5)				

\* Purchase Common Hardware Locally

## NOTES

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION OF TRACTOR WITH ATTACHMENT



1. Fold this page along dotted line indicated above.
2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
3. Sight across the fold in the direction of hill slope you want to measure.
4. Compare the angle of the fold with the slope of the hill.

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